

## **Division of Information Technology Services Technical Bulletin**

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Section/Groups:  
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### **New Mainframe Job Classes and New Job Card Accounting Data Format**

Batch job classes are being redefined for the State's mainframe computer. The new job classes have clear definitions to eliminate the confusion that has existed in the past about which job class should be used for a particular job. The new classes are set up to allow the Data Center to reconfigure the mainframe workload without impacting the customer's JCL. They will also allow the Data Center to more easily tune the job mix to increase throughput. The new job classes will also eliminate the need for the customer to code system affinity (/JOBPARM S=\*\*\*\*) in their JCL. The system will route database dependent jobs to the appropriate system.

A new JOB card accounting data format is also being implemented. The new format will eliminate extraneous characters and improve readability of the accounting data.

All existing jobs will eventually have to be modified to use the new job classes and accounting format. A bridge exit has been written to assist in this implementation. The exit will examine the accounting data format to determine if the new or old format of the accounting data was used. If the old format was used, the exit will determine the best job class for the job to run in and will override the job class on the JOB card with the appropriate new job class. If the new accounting data format was used, the exit will assume that the job has been modified for the new classes and the exit will do no modification to the job.

### **Job Card Accounting Data Format**

#### **Current JOB Card Accounting Data Format**

(xP,x~~LLLL~~x,~~TTTAAAAAA~~,C-C,~~OOO~~)

#### **New JOB Card Accounting Data Format**

(~~LLLL~~,~~TTTAAAAAA~~,~~OOO~~,C-C)

LLLL—Required "Low-Org"

TTTAAAAAA—Optional "Task" and "Activity"

OOO—Optional "Option"

C-C—Optional "Customer Data" (0-13 "National" characters)

\*\*\*\*Underlined fields are validated to FIRMS if present on JOB card.

### Implementation Schedule

July 7, 1991—Bridge Exit implemented in "Warning" mode. No actual changes will be made to your job, but a \$HASP900 message will appear in the job's JES2 JOB LOG describing what modification will be made when the exit is fully implemented.

July 27, 1991—Bridge Exit fully implemented. The exit will modify the job class of your job where appropriate and display a message describing what was changed. The system's initiators will be changed to use the new job classes. The new job classes and new format of the accounting data can be used after this date (7/27/91).

End of Year—The bridge exit will be removed sometime around the end of the year. All JOB cards will need to be changed before this date. The exact date to remove the exit will not be set for a few months so we can adjust the date to minimize customer impact.

| <b>Batch Job Classes</b>       |   |
|--------------------------------|---|
| <b>Job Class</b>               | <b>Definition</b>   |
| F                              | Production Jobs—no time limit   |
| R                              | Production Jobs—10 second time limit—no tapes   |
| A                              | Production Jobs—CA7 submitted only—no time limit  |
| J                              | Production Jobs—CA7 submitted only—10 second time limit—no tapes                                      |
| N                              | Development Jobs—no time limit  |
| 2, 3, or 4                     | CPU Dependent—no time limit   |
| B                              | Even Dependent—operator controlled—no time limit—can use more than four tapes—submit with TYPRUN=HOLD |
| X                              | Emergency Operator Controlled Jobs—cannot be submitted through any reader                             |
| <b>Database Dependent Jobs</b> |   |
| D                              | Development (DV) Database—no time limit   |
| U                              | Development (DV) Database—20 second time limit  |
| G                              | General Government (GG) Database—no time limit  |
| M                              | General Government (GG) Database—20 second time limit   |
| H                              | Human Services (HS) Database—no time limit  |

|   |   |
|---|---|
| P | Human Services (HS) Database—20 second time limit   |
| C | Criminal Justice (CJ) Database—no time limit        |
| K | Criminal Justice (CJ) Database—20 second time limit |
| E | Education (EP) Database—no time limit               |
| L | Education (EP) Database—20 second time limit        |
| Q | Education (EP) Database—off shift single threaded   |

Note: Unless specified otherwise, all classes can use up to four concurrent tape drives. Any class, excluding X, may be used by jobs submitted by CA-7. Database dependent classes will only be available on the system "owning" the associated database and only when that database is available.

Batch Job Classifications: June 21, 1991

|                            | Controlling Method<br>Agency or CA7 |                          |      |      |      |      |    |
|----------------------------|-------------------------------------|--------------------------|------|------|------|------|----|
|                            | CA7<br>Only                         | Data Base Classification |      |      |      |      |    |
|                            |                                     | None                     | DV   | GG   | HS   | CJ   | EP |
| DB Dependent               | XXXX                                | XXXX                     | D    | G    | H    | C    | E  |
| DB Dependent <XX Seconds   | XXXX                                | XXXX                     | U    | M    | P    | K    | L  |
| Off Shift Data Base Load   | XXXX                                | XXXX                     | XXXX | XXXX | XXXX | XXXX | Q  |
| NDB Production <YY Seconds | J                                   | R                        |      |      |      |      |    |
| NDB Production             | A                                   | F                        |      |      |      |      |    |
| NDB Development            | XXXX                                | N                        |      |      |      |      |    |
| CPU Dependent              | 2, 3, or 4                          |                          |      |      |      |      |    |
| Event Dependent            | XXXX                                | B                        |      |      |      |      |    |
| Emergency Operator Control | XXXX                                | X                        |      |      |      |      |    |

XXXX—Not Applicable

DB—Data Base (ADABAS and DB2)

NDB—Not Data Base Dependent

DV—Consists of AT, TR, D1, D2, and ED bases

Event Dependent—Scheduled with operations TYPRUN=HOLD

..XX—Initially Set at 21 (negotiable)

YY—Initially Set at 11 (negotiable)

A maximum of four tape drives allowed per step in any class (except J and R). If more than four tape drives are required, submit into class B with TYPRUN=HOLD then schedule with operations.

Class J and R—Tape drive usage not allowed.

Any class can be used with CA7—however Class J and A can come from CA7.

Class X will not be allowed into the system through any reader (internal, RMT, TSO, etc.)

Data Base Classes will only be available on the system that owns its associated base.

The use of SYSTEM AFFINITY on the JOBPARM statement is strongly discouraged. System affinity and Execution Node will be assigned to the Data Base classes.

Bridge Exit Specifications: June 21, 1991

IF OLD FORMAT JOB CARD

REARRANGE JOB ACCOUNTING DATA

IF JOB = "BE"

IF FROM A REMOTE READER

IF CLASS = "B"

CHANGE CLASS TO "E"

EXIT

ELSE

IF CLASS = "N"

CHANGE CLASS TO "Q"

EXIT

ENDIF

ENDIF

ELSE

EXIT

ENDIF

ENDIF

IF JOB IS DATA BASE RELATED (SEE BELOW)

IF JOB = "HL" OR "WE"

CHANGE CLASS TO "H"

EXIT

ENDIF

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        IF JOB IS "CJ" RELATED (SEE BELOW)
            CHANGE CLASS TO "C"
            EXIT
        ENDIF
        IF JOB = "FI" OR "TX"
            CHANGE CLASS TO "G"
            EXIT
        ELSE
            CHANGE CLASS TO "D"
            EXIT
        ENDIF
    ENDIF
    IF CLASS = "R" OR "N"
        EXIT
    ELSE
        CHANGE CLASS TO "F"
        EXIT
    ENDIF
ENDIF

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The following criteria will be used to determine a "CJ" JOB"

- 1) If the first two characters of the job name start with: CA, CJ, CR, DL, JI, PS, or UC

Jobs will be considered a Data Base Job if they have either a JOBLIB or STEPLIB DD statement pointing to any/all of the following data sets:

- 1) DB.ADABAS.LOAD
- 2) DB.ADABAS.LAODTEST
- 3) DB2.DBD1.DSNLOAD
- 4) DB21.PROD.DSNLOAD